

July 3, 2001
Ref. No.: EOS/ETS-0202-C01

National Aeronautics and
Space Administration
Goddard Space Flight Center
Greenbelt, Maryland 20771

Attention: Mr. Willie Fuller
Code 581
Building 32, Room N212D

Subject: Contract No.: NAS9-98100
CSOC ETS Completion Form Task
EOSDIS Test System (ETS) Simulated CCSDS Telemetry Generator
(SCTGEN) -- Delivery of the Patch Release 2.6.1 Software

Dear Mr. Fuller:

The CSOC contractor is pleased to deliver Patch Release 2.6.1 of the Simulated CCSDS Telemetry Generator (SCTGEN) of the ETS. Release 2.6.1 of SCTGEN provides solutions to one Discrepancy Report (DR), in support of PM-1 and ICESat missions.

The delivery package contains 5 attachments as listed below, describing the delivery contents, build instructions, resolved DRs, and release history. A completed Mission Systems Configuration Management (MSCM) form is included.

If you have any questions concerning this delivery, please call me at (301) 805-3609.

Sincerely yours,

Chii-Der Luo
Tools and Special Facilities Manager

Delivery Package Reviewed by:

Joe Polesel
Simulation Group Sustaining Engineer Manager

Delivery of the Release 2.6.1 Software
July 3, 2001, Ref. No.: EOS/ETS-0202-C01
EOSDIS Test System (ETS) Simulated CCSDS Telemetry Generator

Page Two

The following attachments contain the details of the SCTGEN software.

- Attachment A - contains the instructions to build and install the software
- Attachment B - contains a list of the resolved DRs
- Attachment C - contains the release history summary matrix
- Attachment D - contains a file name listing of the delivery contents
- Attachment E - contains the Mission Systems Configuration Management (MSCM) form

Distribution: (* - Letter Only)

<u>NASA</u>	<u>HTSI</u>	<u>Lockheed Martin</u>	<u>CSC</u>
Fuller, W. *	Bradbury, T.*	Cordier, G.	Green, D.
Harbaugh, R.*	Luo, C.		Noone, E.
Iona, G.*	Braun, J. *		Polesel, A.
Johns, A.*	Zarek, J. *	<u>TRW</u>	Shurie, E.
Kelly, A.			Whitesell, S.*
Ondrus, P.*		Tiren, C.	Task File.
ESDIS Library	<u>Unisys</u>		
	Coleman, C.	<u>Raytheon</u>	<u>Caelum</u>
<u>QSS</u>		Singhal, S.	Holmes, D.
Chomko, E.			Siskind, A.
Elfant, C.			
Walters, A.			

Attachment A — Release 2.6.1 Build Instructions

SCTGEN consists of two elements: (1) the SCTGEN Graphical User Interface, referred to as SCTGUI; and (2) the SCTGEN application software, referred to as SCTGEN. Instructions for building the complete system, SCTGEN Release 2.6.1, step by step, are contained in the following sections.

A.1 Introduction

The patch release SCTGEN Release 2.6.1 consists of 3 source files, which are being delivered on tape media. The files “globals.tcl”, “procREGION.tcl”, and “winSCRIPT.tcl” will replace the files of the same name in the \$HOME/sctgui2.0/source/tcl directory. Note that SCTGEN Patch Release 2.6.1 can only be overlaid over SCTGEN Release 2.6.

A.2 Build SCTGEN

- 1) Change to the \$HOME/sctgen2.0/work directory.
- 2) For the SGI platform, type “sgi.mksctgen.cmd all”, for all other platforms type “mksctgen.cmd* all”, to build all of SCTGEN. This will take about 10 to 15 minutes and will generate warning messages.
- 3) Change to the \$HOME/sctgen2.0/work directory and type “cp sctgen ~/sctgui2.0/bin/*platform*.sctgen2.6.1” to rename the SCTGEN executable, where *platform* is sgi, hp, or sun.
- 4) Change to the \$HOME/sctgui2.0/bin directory.
- 5) Type “rm sctgen” to remove the current executable.
- 6) Type “ln -s ./*platform*.sctgen2.6.1 sctgen” to create a link to the executable, where *platform* is sgi, hp, or sun.

***For the HP platform:**

For step 2, do not type the sgi prefix.

For steps 3 and 6, replace “hp” for “sgi”, or something comparable to denote host platform.

***For the SUN platform:**

For steps 2, do not type the sgi prefix.

For steps 3 and 6, replace “sun” for “sgi”, or something comparable to denote host platform.

Note: The file names may not be exactly the same depending on the platform. For example, different UNIX systems might have different header file extensions. Make sure that the correct files are replaced, otherwise, the changes will not take effect.

A.3 Supported platforms

Previous versions of SCTGEN have been built and tested using the environments listed below.

SUN platform:

- SunOS Generic Version 4.3 including C++ compiler for SUN UNIX.

HP platform:

- HP OS Version 9.0 including C++ compiler for HP UNIX.

SGI platform:

- IRIX Version 6.2 including standard CFRONT compatible C++ compiler.

Attachment B — Resolved Discrepancy Reports

This attachment reflects the DRs that were addressed with SCTGEN Release 2.6.1. The DRs are listed in the table below by DR number, status, severity, subsystem name, short description, and related NCR number. A full description of each DR follows the summary table. Complete information on all DRs is maintained in the ESDIS Discrepancy Report Tracking Tool (DRTT), which can be accessed via the Internet at address <http://iree.gsfc.nasa.gov/ddts/> (directly) or from the ESDIS Activities, Progress Reports and Schedules page at <http://spsosun.gsfc.nasa.gov/ESDIShome.html>.

Summary of Closed Discrepancy Reports

Critical(1)	Urgent(2)	Routine(3)
0	1	0

Status Definitions

N - New	A - Assigned Analysis	R – Assigned Resolution
D - Delivered	V - Verified	C - Closed
W - Withdrawn	P - Postponed	X - Duplicate

DR/IDR #	Status	Severity	Subsystem	Description	Related NCR
ETS0347	A	2	SCTGEN	Blank value for quicklook field in script	ETSdev0036

*Total number DRs addressed=1

ETS0347

When setting the quicklook flag on the 2HDR Menu Panel the user no longer receives the Event Listing Menu Panel to define which packets should have the quicklook flag set. This results in the quicklook field containing a blank value (quicklook()) placed in the script. The following error is received when the user attempts to run the script:

"stream.pkt.ap00xx.region.2hdr : undefined event name [error 2]."

Workaround is for the user to create an event and manually enter the event name in the script.

Related to DR ETS0312

Attachment C — Release History Summary Matrix

The attached Release History Summary Matrix reflects the SCTGEN Release 2.6.1 Delivery.

Release History Summary Matrix									
SYSTEM:	SCTGEN						PAGE	1 OF 2	
RELEASE NUMBER		1.0	1.1.0	1.2.0	1.3.0	1.4.0	1.5.0 (2.0)	2.1	2.2
DELIVERY DATE		3/3/97	5/27/97	8/25/97	2/27/98	6/26/98	9/10/99	11/30/99	2/2/00
CONFIGURATION ITEM	CI NO.								
SCTGEN GUI	5.1	1.0	1.1.0	1.2.0	1.3.0	1.4.0	1.5.0 (2.0)	2.1	2.2
SCTGEN Application Software	5.2	1.0	1.1.0	1.2.0	1.3.0	1.4.0	1.5.0 (2.0)	2.1	2.2

Release History Summary Matrix									
SYSTEM:	SCTGEN						PAGE	2 OF 2	
RELEASE NUMBER		2.3	2.4	2.5	2.5a	2.6	2.6.1		
DELIVERY DATE		6/9/00	10/18/00	1/26/01	2/9/01	5/14/01	7/3/01		
CONFIGURATION ITEM	CI NO.								
SCTGEN GUI	5.1	2.3	2.4	2.5	2.5a	2.6	2.6.1		
SCTGEN Application Software	5.2	2.3	2.4	2.5	2.5a	2.6	2.6.1		

Attachment D- Listing of Delivery Contents

Delivery is on one 4 mm magnetic tape. The contents of the tar tape are listed below. Section D.1 contains the file name listings for the SCTGEN GUI portion. No changes were applied to the SCTGEN application software.

D.1 SCTGEN GUI Patch Release 2.6.1

globals.tcl
procREGION.tcl
winSCRIPT.tcl

Attachment E — Mission Systems Configuration Management Form

This attachment contains the completed Mission Systems Configuration Management (MSCM) form.

Mission Systems Configuration Management Form

<u>1. ORIGINATOR</u> Donald Holmes	<u>2. ORGANIZATION</u> CSOC	<u>3. PHONE</u> (301) 805-3547	<u>4. E-MAIL ADDRESS</u> Donald.Holmes@csconline.com
<u>5. ELEMENT</u> Other =====> SCTGEN		<u>6. INSTALLATION PRIORITY</u> Routine	<u>7. TRACKING NUMBER</u> (Assigned by CM Office)
<u>8. SOURCE CHANGE REQUEST(S):</u> ETS DRB approved SCTGEN release for SMO DR closure.		<u>9. APPROVALS</u> Element Manager _____ / / Flight Ops Director _____ / / Operations Manager _____ / /	
<u>10. DELIVERED SYSTEM</u> (Check all that apply)			
	Name	Version	Media Identification
<input type="checkbox"/> Hardware	_____	_____	_____
<input checked="" type="checkbox"/> Software	<u>SCTGEN</u>	<u>R2.6.1</u>	<u>4 mm tape</u>
<input type="checkbox"/> Database	_____	_____	_____
<input checked="" type="checkbox"/> Documentation:			
	<u>Delivery Package</u>	<u>n/a</u>	<u>Via email</u>
	_____	_____	_____
	_____	_____	_____
<input type="checkbox"/> Other	_____	_____	_____
<u>11. CHANGE DESCRIPTION</u> <u>SCTGEN 2.6.1 addresses one DR. No workaround is provided.</u> _____ _____ _____			
<u>12. ATTACHMENT(S):</u> Check if YES <input checked="" type="checkbox"/> Description: SCTGEN 2.6.1 delivery package (cover letter with attachments) dated 7/3/01. _____ _____			
<u>13. CM OFFICE USE</u>			
	Location (Bldg/Room)	Slot location(s)	
Hardware	_____ / _____	_____	
Media	_____ / _____	_____	
Documentation	_____ / _____	_____	
Installation date	_____ / _____ / _____	CM Office Signature _____	

Form MSCM (970327)